



Squeeze Type Concrete Pump Series Catalogue

Kyokuto Kaihatsu Kogyo Co., Ltd.

TOKYO OFFICE

3-15-10, Higashishinagawa, Shinagawa-ku, Tokyo, 140-0002, Japan TEL: +81(3)5781-9821 FAX: +81(3)5781-3431

E-mail : web-overseas@kyokuto.com <http://www.kyokuto.com/>

HEAD OFFICE

1-45, Koshienguchi 6-Chome, Nishinomiya, Hyogo, 663-8545, Japan TEL : +81(798)66-1000 FAX : +81(798)66-8146

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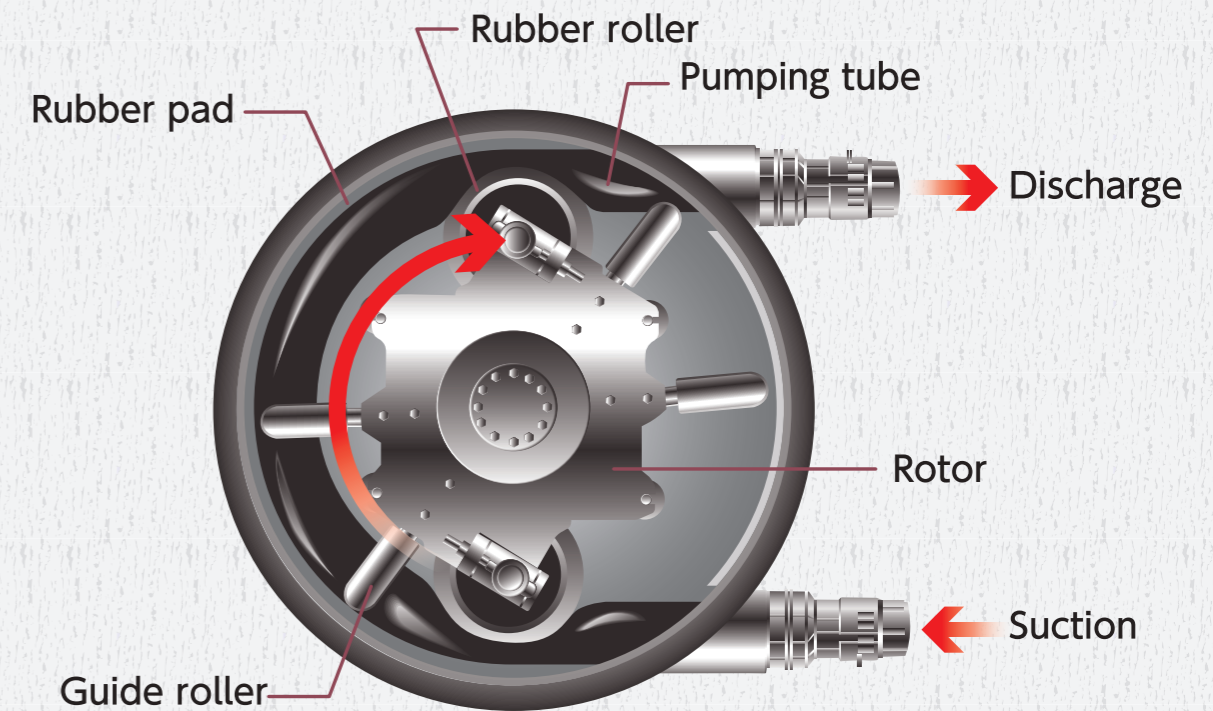
Features of Squeeze Type Concrete Pump

- Simple structure and easy operation.
- Low consumables and excellent cost performance.
- It has less concrete residues in the hopper after working, which lead to the cost saving for disposal.
- Easy and speedy to clean and wash with pumping tube instead of a valve mechanism.
- Compact mobility design to accommodate small areas such as urban areas.
- High functionality and easy to operation.
- We are proud of a record delivering a large number of squeeze type pump as standard machines for small jobs in Japan.



PH50B-17

Structure of squeeze type concrete pump



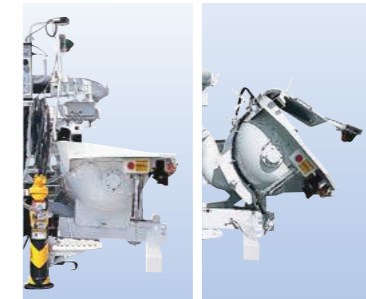
The squeeze type pump uses two rotating rubber rollers to squeeze the pumping tube containing ready-mixed concrete sucked from the hopper, thereby discharging the ready-mixed concrete to squeeze it out. In addition, the vacuum in the drum helps restore the pumping tube and sucks in a quantity of ready-mixed concrete to maintain a stable discharge rate at all times.

Four features of squeeze type concrete pump



Control panel

It is easy to operate, and it is easy to use all switches to carry out pumping operations with ease and certainty, thereby realizing integrated operation between the operator and the machine. In addition, the multiplication rotor revolution meter is incorporated into the panel to determine the placement volume and to guide tube replacement and maintenance.



Tilt hopper

This is a hemisphere hopper that is effective in sucking ready-mixed concrete, has little residual concrete, and is easy to wash. When replacing the pumping tube, a large amount of work space is secured and a tilt function is installed to shorten the replacement time.



Boat bottom shape hopper

A boat bottom shape hopper where ready-mixed concrete can easily gather at the inlet.



Electric vacuum pump

Battery driven electric vacuum pump is equipped. Vacuum pump is driven until the drum gets vacuumed, and then it stops. It extends the life of vacuum pumps, reduces oil consumption, and is economical.

Wide variety of squeeze type concrete pumps

Wide range of product line-up accommodating each job site

Squeeze Type

Equipped with hydraulic extension boom function



Fine adjustment of the hose position at the tip can be easily performed, making it easier to place the hose near the tip of the boom in a narrow field.



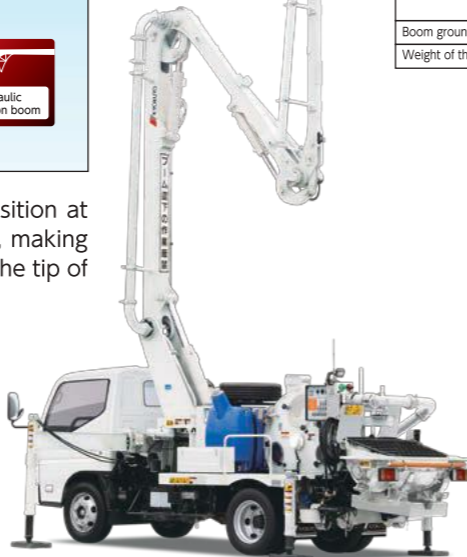
PH35B-11	
35m³/h ※Maximum discharge quantity	2.5MPa ※Maximum delivery pressure
Boom format : Three-stage articulated type	
Boom ground height : 11.4m	
Weight of the equipment : Approx. 3,600kg	



PQ20-21M	
20m³/h ※Maximum discharge quantity	1.5MPa ※Maximum delivery pressure



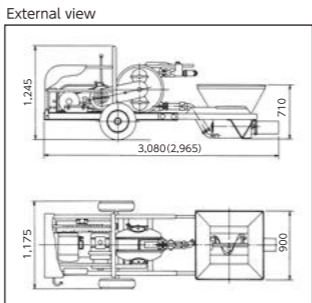
PS07 A	
7m³/h ※Maximum discharge quantity	2.5MPa ※Maximum delivery pressure
※With agitator	



PH45A-15	
45m³/h ※Maximum discharge quantity	2.5MPa ※Maximum delivery pressure
Boom format : Three-stage articulated type +Tip telescoping type	
Boom ground height : 14.6m	
Weight of the equipment : Approx. 4,100kg	



PQ45-12	
45m³/h ※Maximum discharge quantity	2.5MPa ※Maximum delivery pressure
Weight of the equipment : Approx. 2,720kg	



PH50B-18	
50m³/h ※Maximum discharge quantity	2.5MPa ※Maximum delivery pressure
Boom format : Four-stage articulated type	
Boom ground height : 17.8m	
Weight of the equipment : Approx. 4,900kg	



PH50B-17	
50m³/h ※Maximum discharge quantity	2.5MPa ※Maximum delivery pressure
Boom format : Three-stage articulated type +Tip telescoping type	
Boom ground height : 17m	
Weight of the equipment : Approx. 4,400kg	



PH80-26B	
80m³/h ※Maximum discharge quantity	2.5MPa ※Maximum delivery pressure
Boom format : Four-stage articulated type	
Boom ground height : 25.7m	
Weight of the equipment : Approx. 10,300kg	



PH65A-19B	
65m³/h ※Maximum discharge quantity	2.2MPa ※Maximum delivery pressure
Boom format : Three-stage articulated type +Tip telescoping type	
Boom ground height : 18.6m	
Weight of the equipment : Approx. 5,000kg	

Other concrete pump line-up

Piston Type



PY165-39	
165m³/h ※Maximum discharge quantity	8.5MPa ※Maximum delivery pressure
Boom format : Five-stage articulated type	
Boom ground height : 38.5m	
Weight of the equipment : Approx. 17,000kg	



PY135-28-H	
135m³/h ※Maximum discharge quantity	13.3MPa ※Maximum delivery pressure
Boom format : Four-stage articulated type	
Boom ground height : 27.9m	
Weight of the equipment : Approx. 13,200kg	



PY125-36A	
124m³/h ※Maximum discharge quantity	7.0MPa ※Maximum delivery pressure
Boom format : Four-stage articulated type	
Boom ground height : 35.6m	
Weight of the equipment : Approx. 16,300kg	



PY100-36A-S	
105m³/h ※Maximum discharge quantity	7.0MPa ※Maximum delivery pressure
Boom format : Four-stage articulated type	
Boom ground height : 35.6m	
Weight of the equipment : Approx. 16,500kg	



PY120-33C	
122m³/h ※Maximum discharge quantity	7.0MPa ※Maximum delivery pressure
Boom format : Four-stage articulated type	
Boom ground height : 32.6m	
Weight of the equipment : Approx. 13,500kg	



PY115A-26C	
115m³/h ※Maximum discharge quantity	6.6MPa ※Maximum delivery pressure
Boom format : Four-stage articulated type	
Boom ground height : 25.8m	
Weight of the equipment : Approx. 10,200kg	



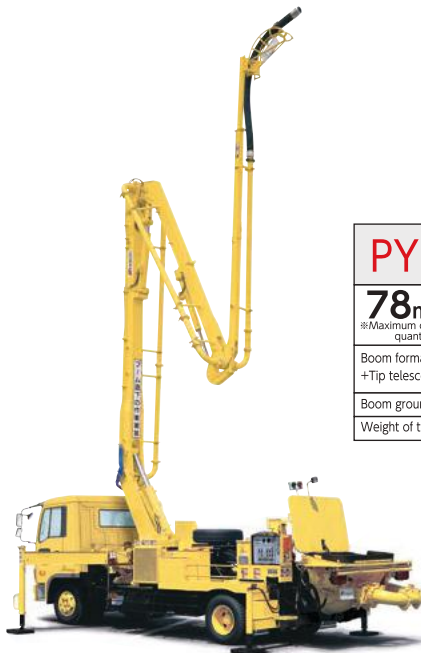
PY100-26-S	
105m³/h ※Maximum discharge quantity	7.0MPa ※Maximum delivery pressure
Boom format : Four-stage articulated type	
Boom ground height : 25.8m	
Weight of the equipment : Approx. 10,800kg	



PY90-17	
90m³/h ※Maximum discharge quantity	8.5MPa ※Maximum delivery pressure
Boom format : Three-stage articulated type	
Boom ground height : 16.6m	
Weight of the equipment : Approx. 6,000kg	



PY75B-19B	
78m³/h ※Maximum discharge quantity	4.9MPa ※Maximum delivery pressure
Boom format : Three-stage articulated type + Tip telescoping type	
Boom ground height : 18.6m	
Weight of the equipment : Approx. 5,600kg	



PT110-10	
112m³/h ※Maximum discharge quantity	16MPa ※Maximum delivery pressure
Weight of the equipment : Approx. 6,300kg	



PT70-12	
72m³/h ※Maximum discharge quantity	7.9MPa ※Maximum delivery pressure
Weight of the equipment : Approx. 3,700kg	



■Squeeze type main specifications

Model			PH80-26B	PH65A-19B	PH50B-18	PH50B-17	PH45A-15	PH35B-11	PQ45-12
Pump body	System		Vacuum squeeze type	Vacuum squeeze type	Vacuum squeeze type	Vacuum squeeze type	Vacuum squeeze type	Vacuum squeeze type	Vacuum squeeze type
	Max. discharge quantity Max. discharge pressure	High speed	80m³/h×2.2MPa	65m³/h×1.8MPa	50m³/h×1.8MPa	50m³/h×1.8MPa	45m³/h×1.8MPa	35m³/h×2.5MPa	45m³/h×1.8MPa
		Low speed	70m³/h×2.5MPa	55m³/h×2.2MPa	36m³/h×2.5MPa	36m³/h×2.5MPa	32m³/h×2.5MPa		32m³/h×2.5MPa
	Maximum aggregate size		25mm	25mm	25mm	25mm	25mm	25mm	25mm
	Hopper volume		0.3m³	0.3m³	0.28m³	0.28m³	0.28m³	0.28m³	0.28m³
	Hopper ground height*		Approx. 1,250mm	Approx. 1,140mm	Approx. 1,050mm	Approx. 1,050mm	Approx. 1,070mm	Approx. 1,050mm	Approx. 1,050mm
Pumping tube diameter			5.75B	5B	4.5B	4.5B	4.5B	4.5B	4.5B
Boom	Model		Four-stage articulated type	Three-stage articulated type + tip telescoping type	Four-stage articulated type	Three-stage articulated type+ tip telescoping type		Three-stage articulated type	-
	Maximum ground height		25.7m	18.6m	17.8m	17m	14.6m	11.4m	-
	Maximum length		21.8m	15.6m	14.8m	14.3m	11.9m	8.7m	-
	Operation method		Electromagnetic hydraulic type	Electromagnetic hydraulic type	Electromagnetic hydraulic type	Electromagnetic hydraulic type	Electromagnetic hydraulic type	Electromagnetic hydraulic type	-
	Concrete transport pipe diameter		125A	100A	100A	100A	100A	100A	-
Outrigger	Model		Manual drawer type (front), jack hydraulic type	Manual drawer type, jack hydraulic type	Manual drawer type, jack hydraulic type	Manual drawer type, jack hydraulic type	Manual drawer type, jack hydraulic type	Manual drawer type, jack hydraulic type	Jack hydraulic type
	Extension span	Front	5,430mm	4,700mm	4,850mm	Standard 3,600mm Wide 4,695mm	Standard 3,612mm Wide 4,106mm	2,510mm	-
		Rear	5,430mm·2,200mm(fixed)	3,050mm	2,680mm	2,680mm	2,500mm	2,140mm	1,000mm(fixed)
	Jack reaction force	Front	127kN(13t)	78.9kN(8t)	70kN(7t)	70kN(7t)	60kN(6t)	50kN(5t)	-
		Rear	157kN(16t)·78kN(8t)	78.9kN(8t)	60kN(6t)	60kN(6t)	60kN(6t)	50kN(5t)	40kN(4t)
Water tank capacity			450ℓ	450ℓ	350ℓ	350ℓ	350ℓ	350ℓ	350ℓ
Washing	Model		Washing	Washing	Washing	Washing	Washing	Washing	Washing
	Method		Electric water pump	Electric water pump	Electric water pump	Electric water pump	Electric water pump	Electric water pump	Electric water pump
	Capacity	Pressure	0.3MPa	0.3MPa	0.3MPa	0.3MPa	0.3MPa	0.13MPa	0.13MPa
Discharges		90ℓ/min	90ℓ/min	90ℓ/min	90ℓ/min	90ℓ/min	46ℓ/min	46ℓ/min	
Weight of the equipment			Approx. 10,300kg	Approx. 5,000kg	Approx. 4,900kg	約4,400kg	Approx. 4,100kg	Approx. 3,600kg	Approx. 2,720kg
Overall length*			Approx. 9,580mm	Approx. 7,500mm	Approx. 6,790mm	約6,740mm	Approx. 5,600mm	Approx. 5,150mm	Approx. 5,150mm
Overall width*			Approx. 2,490mm	Approx. 2,240mm	Approx. 2,060mm	約2,060mm	Approx. 1,890mm	Approx. 1,895mm	Approx. 1,695mm
Overall height*			Approx. 3,440mm	Approx. 3,000mm	Approx. 2,920mm	約2,790mm	Approx. 2,680mm	Approx. 2,680mm	Approx. 2,250mm
Gross vehicle weight*			Approx. 16,395kg	Approx. 8,850kg	Approx. 7,850kg	約7,200kg	Approx. 6,865kg	Approx. 6,200kg	Approx. 5,230kg

※It depends on the mounting chassis.

■Piston type main specifications

Model			PY165-39	PY135-28-H	PY125-36A	PY100-36A-S	PY120-33C	PY115A-26C	PY100-26-S	PY90-17	PY75B-19B
Specifications			9B specifications	9B specifications	9B specifications	9B specifications	9B specifications	9B specifications	9B specifications	8B specifications	8B specifications
Performance	Max. discharge quantity	Standard High pressure	165m³/h×8.5MPa	135m³/h×8.5MPa	124m³/h×4.9MPa	105m³/h×4.9MPa	122m³/h×4.9MPa	115m³/h×4.6MPa	105m³/h×4.9MPa	90m³/h×5.9MPa	78m³/h×3.2MPa
	Max. discharge pressure		-	100m³/h×13.3MPa	90m³/h×7.0MPa	73m³/h×7.0MPa	88m³/h×7.0MPa	80m³/h×6.6MPa	73m³/h×7.0MPa	65m³/h×8.5MPa	55m³/h×4.9MPa
	Discharge method of remained concrete		Air wash	Washing	Washing	Washing	Washing	Washing	Washing	Washing	Washing
	Maximum aggregate size		40mm	40mm	40mm	40mm	40mm	40mm	40mm	40mm	40mm
Pump body	Number of concrete cylinders		2	2	2	2	2	2	2	2	2
	Cylinder diameter x stroke		Φ225×2,100mm	Φ225×2,100mm	Φ225×2,100mm	Φ225×1,900mm	Φ225×1,900mm	Φ225×1,650mm	Φ225×1,900mm	Φ205×1,150mm	Φ205×1,150mm
	Hopper volume		0.5m³	0.5m³	0.5m³	0.5m³	0.5m³	0.5m³	0.5m³	0.43m³	0.35m³
	Hopper ground height*		Approx 1,250mm	Approx 1,250mm	Approx 1,250mm	Approx 1,250mm	Approx 1,190mm	Approx 1,250mm	Approx 1,250mm	Approx 1,290mm	Approx 1,200mm
	Water tank capacity		150ℓ	400ℓ	300ℓ	300ℓ	420ℓ	400ℓ	400ℓ	450ℓ	485ℓ
Water pumps	Model		Double action piston type	Double action piston type	Double action piston type	Double action piston type	Double action piston type	Double action piston type	Double action piston type	Double action piston type	Double action piston type
	Washing	Maximum discharge quantity Maximum delivery pressure	87ℓ/min 7.0/5.7MPa	40ℓ/min 9.1/7.2MPa	40ℓ/min 7.0/5.7MPa	40ℓ/min 7.0/5.7MPa	56ℓ/min 7.0/5.8MPa	40ℓ/min 4.9MPa	40ℓ/min 7.0/5.7MPa	18ℓ/min 7.0/5.7MPa	40ℓ/min 4.9MPa
Boom	Model		Total hydraulic five-stage articulated type	Total hydraulic four-stage articulated type	Total hydraulic four-stage articulated type	Total hydraulic four-stage articulated type	Total hydraulic four-stage articulated type	Total hydraulic four-stage articulated type	Total hydraulic four-stage articulated type	Total hydraulic three-stage articulated type	Three-stage articulated type + tip telescoping type
	Maximum ground height		38.5m	27.9m	35.6m	35.6m	32.6m	25.8m	25.8m	16.6m	18.6m
	Maximum length		34.8m	24.5m	32.1m	32.1m	29.0m	21.8m	21.8m	13.7m	15.6m
	Operation method		Electromagnetic hydraulic type	Electromagnetic hydraulic type	Electromagnetic hydraulic type	Electromagnetic hydraulic type	Electromagnetic hydraulic type	Electromagnetic hydraulic type	Electromagnetic hydraulic type	Electromagnetic hydraulic type	Electromagnetic hydraulic type
	Concrete transport pipe diameter		125A	125A	125A	125A	125A	125A	125A	125A	100A
	Turning angle		365° limited turn	370° limited turn	370° limited turn	370° limited turn	370° limited turn	360° Full turn	360° Full turn	360° Full turn	360° Full turn
Outrigger	Model		Hydraulic type	Hydraulic type	Hydraulic type	Hydraulic type	Hydraulic type	Manual drawer type, jack hydraulic type	Manual drawer type, jack hydraulic type	Manual drawer type, jack hydraulic type	Manual drawer type, jack hydraulic type
	Extension span	Front	7,850mm	5,500mm	7,600mm	7,600mm	6,135mm	5,430mm	5,430mm	Standard 4,295mm Wide 4,700mm	4,700mm
		Rear	7,850mm	5,700mm	7,800mm	7,800mm	6,790mm	5,430mm-2,200mm(fixed)	5,430mm-2,200mm(fixed)	3,050mm	3,050mm
		Assist	1,300mm (fixed)	980mm(fixed)	1,000mm(fixed)	1,000mm(fixed)	980mm(fixed)	-	-	-	-
	Jack reaction force	Front	200kN (20t)	170kN (17t)	200kN (20t)	200kN (20t)	160kN (16t)	127kN (13t)	127kN (20t)	88kN (9t)	78kN (8t)
		Rear	200kN (20t)	170kN (17t)	200kN (20t)	200kN (20t)	160kN (16t)	157kN(16t)-78kN (8t)	157kN(16t)-78kN (8t)	88kN (9t)	78kN (8t)
		Assist	78kN (8t)	78kN (8t)	78kN (8t)	78kN (8t)	78kN (8t)	-	-	-	-
Operating mode			PLC control panel	PLC control panel	PLC control panel	PLC control panel	PLC control panel	PLC control panel	Centralized control with control panel	Centralized control with control panel	
Weight of the equipment			Approx. 17,000kg	Approx. 13,200kg	Approx. 16,300kg	Approx. 16,500kg	Approx. 13,500kg	Approx. 10,200kg	Approx. 10,800kg	Approx. 6,000kg	Approx. 5,600kg
Overall length*			Approx. 11,980mm	Approx. 10,350mm	Approx. 11,980mm	Approx. 11,980mm	Approx. 11,010mm	Approx. 9,800mm	Approx. 9,800mm	Approx. 7,550mm	Approx. 7,500mm
Overall width*			Approx. 2,490mm	Approx. 2,490mm	Approx. 2,490mm	Approx. 2,490mm	Approx. 2,490mm	Approx. 2,490mm	Approx. 2,490mm	Approx. 2,240mm	Approx. 2,240mm
Overall height*			Approx. 3,670mm	Approx. 3,600mm	Approx. 3,600mm	Approx. 3,600mm	Approx. 3,590mm	Approx. 3,500mm	Approx. 3,500mm	Approx. 2,960mm	Approx. 3,050mm
Crew			Three persons	Three persons	Three persons	Three persons	Three persons	Three persons	Three persons	Three persons	Three persons
Gross vehicle weight*			Approx. 24,950kg	Approx. 21,950kg	Approx. 24,990kg	Approx. 24,990kg	Approx. 21,900kg	Approx. 16,765kg	Approx. 16,900kg	Approx. 10,500kg	Approx. 9,400kg

※It depends on the mounting chassis.

■ Line concrete pump (Piston type)main specifications

Model			PT70-12	PT110-10
Specifications			8B specifications	8B specifications
Performance	Max. discharge quantity		72m³/h×5.6MPa	112m³/h×10.1MPa
	Max. discharge pressure			
	Standard		53m³/h×7.9MPa	83m³/h×16.0MPa
	High pressure			
Performance	Discharge method of remained concrete		Washing	Washing
	Maximum aggregate size		40mm	40mm
	Number of concrete cylinders		2	2
Pump body	Cylinder diameter x stroke		Φ205×1,650mm	Φ205×2,100mm
	Hopper volume		0.5m³	0.5m³
	Hopper ground height*		Approx. 1,200mm	Approx. 1,350mm
	Water tank capacity		500 ℓ	480 ℓ
Water pumps	Model		Double action piston type	Double action piston type
	Washing	Maximum discharge quantity	25m³/h	25m³/h
		Maximum delivery pressure	5.9MPa	10.5MPa/8.3MPa
	Piping cleaning	Maximum discharge quantity	40 ℓ /min	40 ℓ /min
		Maximum delivery pressure	4.9MPa	9.1MPa/7.2MPa
Outrigger	Model		Manual hydraulic type	Manual hydraulic type
	Extension span (Rear)		1,950 mm (fixed)	2,380mm(fixed)
	Jack reaction force (Rear)		70kN (7t)	80kN (8t)
	Operating mode		PLC control panel	PLC control panel
Weight of the equipment			Approx. 3,700kg	Approx. 6,300kg
Overall length*			Approx. 7,480mm	Approx. 9,980mm
Overall width*			Approx. 2,200mm	Approx. 2,490mm
Overall height*			Approx. 2,400mm	Approx. 3,015mm
Crew			Three persons	Three persons
Gross vehicle weight*			Approx. 7,500kg	Approx. 15,300kg

※It depends on the mounting chassis.

■ Stationary concrete pump (squeeze type)main specifications

Model		PQ20-21M
Maximum discharge quantity		20m³/h
Maximum delivery pressure		1.5MPa
Pumping tube diameter		4.5B
Main pump motor		AC200V15kW
Vacuum pump motor		DC24V 0.4kW
Main motor control		Inverter control
Dimensions	Overall length	2,740mm
	Overall width	1,060mm
	Overall height	1,755mm
Weight		Approx.1,350kg

■ Mortar pump main specifications

Model		PS07A
Maximum discharge quantity	One speed	1.5m³/h
	Two speeds	4m³/h
	Third speed	7m³/h
Maximum pumping distance	Horizontal	200m
	Vertical	50m
Pumping tube diameter		Φ65m
Driving power	Pump	7.5kw(200V)
	Agitator	0.5kw(200V)
Dimensions	Overall length	3,080mm
	Overall width	1,175mm
	Overall height	1,245mm
Weight	Pump	700kg
Hopper capacity		260 ℓ